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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/614,196 | 07/08/2003 | Takeyuki Suzuki | 04208.0181 | 6357 |

7590 02/10/2004

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EXAMINER

GILMAN, ALEXANDER

ART UNIT PAPER NUMBER

2833

DATE MAILED: 02/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|-------------------------------|-------------------------------|--|
| Office Action Summary | Application No. 10/614,196 | Applicant(s) SUZUKI ET AL. | |
| | Examiner Alexander Gilman | Art Unit 2833 | |

-- Th MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 9-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>10172003</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Claim Objections

Claims 3, 7, 8 are objected to because of the following informalities:

Claim 3 recites the limitation "said accommodation portion" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 8 recite "the sinking –amount adjustment section is a convex seat portion".

It can be interpreted that the sinking –amount adjustment section includes only one convex seat portion. However, the specification suggests a plurality of the seats corresponding to a plurality of the bumps.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 3, 5, 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Ikea et al.

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With regard to claim 1, Ikea et al (US 6,439,897) disclose a socket for a semiconductor device comprising:

a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),
a pressing member (30)
an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet,
and a movement-amount controlling member (15).

With regard to claims 2 and 3, Ikea et al disclose socket for a semiconductor device comprising:

a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),
a pressing member (30) being formed integral with a contact sheet pressing member (30a);
an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet.

a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),
a pressing member (30)
an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet,

With regard to claims 5, 9-11 Ikea et al disclose most of the limitations as applied to claim 1 above plus a sinking-amount adjustment section (12a, Fig. 4).

With regard to claims 9, 10, 12, Ikea et al disclose most of the limitations as applied to claim 1 above plus a sinking-amount adjustment section (15) made of elastic material.

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2. Claims, 2, 4, 5, 6 are rejected under 35 U.S.C. 102(e) as being anticipated by the admitted prior art.

The admitted prior art (Fig. 20) discloses a contact sheet (6) having a plurality of bumps (6b) to be electrically connected to a terminal group of a semiconductor device (12), a pressing member (16) being formed integral with a contact sheet pressing member ; an accommodation portion (2a) for accommodating the semiconductor device disposed on said contact sheet.

The admitted prior art also discloses a sinking-amount adjustment section (a depression in the base for an elastic sheet (4), which restricts the sinking.

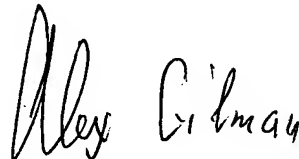
Allowable Subject Matter

Claims 7 and 8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

No prior art has been found to anticipate or render obvious the presently claimed subject matter. Specifically, none of the prior art of record discloses the combination of the limitations presented including the using a plurality of the seats corresponding to a plurality of the bumps to prevent the extensive sinking the contact sheet at a location of the bumps.

Any inquiry concerning this communication should be directed to Alexander Gilman at telephone number (571) 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

01/30/2004



**ALEXANDER GILMAN
PRIMARY EXAMINER**

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